RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: _____10/647,625_____
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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
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Revised 04/24/2003

OIPE

RAW SEQUENCE LISTING   DATE: 09/03/2003
PATENT APPLICATION: US/10/647,625   TIME: 10:55:01

          Input Set : A:\Sequence Listing 8-25-03.txt
          Output Set: N:\CRF4\09032003\J647625.raw

        3 <110> APPLICANT: VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR BIOTECHNOL
        5 <120> TITLE OF INVENTION: Plant stress regulated genes
        7 <130> FILE REFERENCE: FVB/Tab/V077
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/647,625
C--> 10 <141> CURRENT FILING DATE: 2003-08-25
       12 <150> PRIOR APPLICATION NUMBER: 01200659.9
       13 <151> PRIOR FILING DATE: 2001-02-23
       15 <160> NUMBER OF SEQ ID NOS: 173
       17 <170> SOFTWARE: PatentIn Ver. 2.1
       19 <210> SEQ ID NO: 1
       20 <211> LENGTH: 233
       21 <212> TYPE: DNA
       22 <213> ORGANISM: Nicotiana tabacum
       24 <220> FEATURE:
       25 <223> OTHER INFORMATION: plasmid a1-1-14
       27 <220> FEATURE:
       28 <221> NAME/KEY: misc_feature
       29 <222> LOCATION: (68)..(68)
       30 <223> OTHER INFORMATION: n can be any nucleotide
       32 <400> SEQUENCE: 1
       33 gtaacgaggt acagaagcat tgtattacaa tgttattcat cacatgatat taaagaggta 60
W--> 34 gggtttantt tgttggacat tgaagctaaa atttctcttt aacacttaat gaaatattta 120
       35 atttagattc aggctcacag acttgacgct gctatttttt tactcagtaa gatcatcttt 180
       36 atctgtagtc tgtaccaata ataaaagccc aaaccccttt aaccacattc atc   233
       39 <210> SEQ ID NO: 2
       40 <211> LENGTH: 314
       41 <212> TYPE: DNA
       42 <213> ORGANISM: Nicotiana tabacum
       44 <220> FEATURE:
       45 <223> OTHER INFORMATION: plasmid a10-2-12
       47 <220> FEATURE:
       48 <221> NAME/KEY: misc_feature
       49 <222> LOCATION: (141)..(188)
       50 <223> OTHER INFORMATION: n can be any nucleotide
       52 <400> SEQUENCE: 2
       53 aatggaagag gtcaagaaga atgtaaatgg cttttcagag accattgagg ttttgagtca 60
       54 gcacgccaag aaatgtaacc aggatattag gatggcacga gcagtgatct tgcggaagat 120
W--> 55 tgtcagtcaa cccagtagct ngaatcaggg cattggtatg ttctttgatt gacagtagnt 180
       56 gtcttgnnga ttttcttttt gtttatatac catgtatgtt tgtaaaaagt tggtccaatt 240
       57 atgttctgtt ggatctgttg atttgagatt tttgacccct gcagaaaatt aagttatagt 300
       58 cctcattttg ttag   314
       61 <210> SEQ ID NO: 3
       62 <211> LENGTH: 286

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Input Set : **A:\Sequence Listing 8-25-03.txt**
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```
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Nicotiana tabacum
 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: plasmid a10-4-1
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: homology with metallothionein, homeobox gene
 71      induced
 73 <400> SEQUENCE: 3
 74 ggcagcggct gcggaggatg tgggatctac ccagacttgg agaagtccat acctttacca 60
 75 tcgttgatgg tgttgctccc atgaagagct ttgaggaatt tggagagaaa gcagcagaag 120
 76 gaggaaatgg ctgcaaatgc ggatcaaact gcacctgtga cccttgcaat tgttaagata 180
 77 attctcttgt gattccacaa taatgtgtgt gttttctgta ataataagga taaaactaca 240
 78 gctagccatg gaactgattg tcagttttta ggtttgtttg ttctga            286
 81 <210> SEQ ID NO: 4
 82 <211> LENGTH: 286
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Nicotiana tabacum
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: plasmid a10-4-12
 89 <220> FEATURE:
 90 <221> NAME/KEY: misc_feature
 91 <222> LOCATION: (58)..(195)
 92 <223> OTHER INFORMATION: n can be any nucleotide
 95 <400> SEQUENCE: 4
```
W--> 96 gacatcagct gttggagctc aagactttcc tcctgtttca caatatgact ataaatantt 60
```
 97 gcaacttcag ctgttggagc tcaacatttg caagtgatta ttggctttga agagaactta 120
 98 atttattggt tgtgacttgg tggcaaatta tgtgttttca agtagtaatt tgccttgtgc 180
 99 ctctatgttt tcaantagta atttgccttc gcgagttgat tacatgagaa atcagattct 240
100 cagtctttgt gtagtaatta tttgggctgg tgccatcagc caagtg            286
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 278
105 <212> TYPE: DNA
106 <213> ORGANISM: Nicotiana tabacum
108 <220> FEATURE:
109 <223> OTHER INFORMATION: plasmid a10-4-15
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (64)..(186)
114 <223> OTHER INFORMATION: n can be any nucleotide
116 <400> SEQUENCE: 5
117 ctacaaaaga aaggttattt atacaatatg cattgtaaaa aatcaaccgt taatacaatg 60
```
W--> 118 ggcngcataa catataatat aagattttga taacctaatg accaacaaca cttatttata 120
```
119 taatatgtgg aaaagatgca tccaactatc acagatataa catccaaagg ctatacttaa 180
120 tttctnctaa ataacaaaca cacacttaat ccgtcactcc tcgtgtgtac aagcaatagt 240
121 ccccaattta gttgtcatcc tctaacattc aatattcc              278
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 349
126 <212> TYPE: DNA
127 <213> ORGANISM: Nicotiana tabacum
```

```
      129 <220> FEATURE:
      130 <223> OTHER INFORMATION: plasmid a14-1-1 ; homology with a serine
      131      carboxypeptidase
      133 <220> FEATURE:
      134 <221> NAME/KEY: misc_feature
      135 <222> LOCATION: (19)..(19)
      136 <223> OTHER INFORMATION: n can be any nucleotide
      138 <400> SEQUENCE: 6
W--> 139 gcagaaagat tttgggggng gcaccatctg gtttctttca cagtagatgg tgaggagaaa 60
      140 ggaattcaaa agagctatgg acctctgact ttcctcaaag tcccatgatg caggtcatat 120
      141 ggtgccaatg gaccaaccaa aggcagcact cgaaatgctc cagaggtgga ctgctcaagg 180
      142 caaattgtcc taagaagatt atcttgctca catgtgaagc atcaatttaa gaaccacact 240
      143 taactgaaac agatttaaca ttttttccagc tttaaaattc catcaaaaca tagaaaatca 300
      144 tgtagataca tttcaccttt tcaggttacc ctgaaatctg tcaatgaaa              349
      147 <210> SEQ ID NO: 7
      148 <211> LENGTH: 367
      149 <212> TYPE: DNA
      150 <213> ORGANISM: Nicotiana tabacum
      152 <220> FEATURE:
      153 <223> OTHER INFORMATION: plasmid a14-1-3
      155 <400> SEQUENCE: 7
      156 gtggaggaaa ggttcaggga aggttgtcgg agtcaatgcc gccgatgccg ggaaagttta 60
      157 cctgagaaat gaaactgccg gaattttgac ggttggcgac atgaggaacg ttaagtcacc 120
      158 gttagagata acggagggtg acgacacgtg gtgggacgcg gacgccgtta caatcgagga 180
      159 gcagtttgac ggttcaaata aaactagtca aattgaacga gtttcactga ctcggtgaat 240
      160 gaatgatcta aaaagggtaa aatcgtaaat gacaaaggcg aaatgtgaag gaacgaacac 300
      161 tcgtccgtgt ttgtctgtaa atataattat tttcaataat tattggaaat gataatttaa 360
      162 tatttgg                                                          367
      165 <210> SEQ ID NO: 8
      166 <211> LENGTH: 389
      167 <212> TYPE: DNA
      168 <213> ORGANISM: Nicotiana tabacum
      170 <220> FEATURE:
      171 <223> OTHER INFORMATION: plasmid a14-1-4
      173 <400> SEQUENCE: 8
      174 ggaagaagaa agagaaaggg ctgagaaaga gaaagagaaa gagaaagaag cagctgctga 60
      175 agaagccaag attactgata aagtgaacga aaatgagaag tcggagagta atattgtcaa 120
      176 ggaaaatcca gagggtaatg gtgttaagga aaatggtaag tcggaaaata atgttgtcaa 180
      177 ggaaaatggt gatgttagta aaggttgatc atgaaatgat tgattaatta ggagttccac 240
      178 ttaaaactag gatccaataa ttttgaatag ttttgctgtg ttcacattgt tgactttgtt 300
      179 attcaaacta ttcggatgga agtagtggat gtcgcaaatt acatttagta ttactacctt 360
      180 cttgtgaaag taacattttc ataatttag                                  389
      183 <210> SEQ ID NO: 9
      184 <211> LENGTH: 317
      185 <212> TYPE: DNA
      186 <213> ORGANISM: Nicotiana tabacum
      188 <220> FEATURE:
      189 <223> OTHER INFORMATION: plasmid a18-1-5 ; homology with EREBP-1
      191 <220> FEATURE:
```

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Input Set : **A:\Sequence Listing 8-25-03.txt**
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```
      192 <221> NAME/KEY: misc_feature
      193 <222> LOCATION: (9)..(309)
      194 <223> OTHER INFORMATION: n can be any nucleotide
      196 <400> SEQUENCE: 9
W--> 197 ggacatacna nacggcggag gatgcggcgt tggcgtatga caaggcggcg tatcgaattc 60
      198 ggggatcgcg tgcagtgttg aatttcccgt tgagggttaa ttcgggtgaa ccggaaccgg 120
      199 ttcgggttgg ttcgaanagg tcgtcaattt cgccggagag ttcttcctcg tcgtcgtcgg 180
      200 aaaatatttc gacaaagagg acgaagaagg ttgcccnnct atacagctga gggttaattt 240
      201 gggaatttca aaattgttca attccatgaa caggttgagt tcaatatttt atttcatttc 300
      202 ctctcctcnt agaaatt                                                317
      205 <210> SEQ ID NO: 10
      206 <211> LENGTH: 276
      207 <212> TYPE: DNA
      208 <213> ORGANISM: Nicotiana tabacum
      210 <220> FEATURE:
      211 <223> OTHER INFORMATION: plasmid a18-1-8
      213 <220> FEATURE:
      214 <221> NAME/KEY: misc_feature
      215 <222> LOCATION: (166)..(263).
      216 <223> OTHER INFORMATION: n can be any nucleotide
      218 <400> SEQUENCE: 10
      219 ctgagctagg agagcacaca gggccttagt tcaagtggaa aaggtggaag gacttgtgat 60
      220 taagtcacgg gtttgagcta cgtgccatgc gaattaagct tggtatttaa gtggagtagg 120
W--> 221 gtagaggggt ggacccatta tccgagtttc gaatgctgca gttgtnccta gacagatttc 180
      222 tcggtcctca aaataaaata aaataaatga gcttggagaa taaactccat ttttgtgaca 240
      223 gtacaatctt ctgcataaac atanctcaaa aagtgt                           276
      226 <210> SEQ ID NO: 11
      227 <211> LENGTH: 293
      228 <212> TYPE: DNA
      229 <213> ORGANISM: Nicotiana tabacum
      231 <220> FEATURE:
      232 <223> OTHER INFORMATION: plasmid a18-3-2
      234 <220> FEATURE:
      235 <221> NAME/KEY: misc_feature
      236 <222> LOCATION: (27)..(277)
      237 <223> OTHER INFORMATION: n can be any nucleotide
      239 <400> SEQUENCE: 11
W--> 240 gatgtacctg aagccactgc tatggantat gttggaggta ttttatcaac aattggcnaa 60
      241 anatgtatgc tcgatttgt attttgattc ntaaanttga taannnngag ntgaatcga 120
      242 ctgtattttg caagngtagt tatatcttta atcttgtttc ataaaatgca tgtgtgattg 180
      243 ttattttagt cgatagaaaa aagaaagacc cngtatagtt tgttgatctg tgctgcagtt 240
      244 tttgacagcc aatgctgttt tttaggttac aatatgnagt tgattttcta ttg         293
      247 <210> SEQ ID NO: 12
      248 <211> LENGTH: 290
      249 <212> TYPE: DNA
      250 <213> ORGANISM: Nicotiana tabacum
      252 <220> FEATURE:
      253 <223> OTHER INFORMATION: plasmid a18-3-3 ; homology with EIF-5A (initiation
      254       factor 5A2)
```

[handwritten annotation at line 215:] →correct location 264

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Input Set : **A:\Sequence Listing 8-25-03.txt**
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```
256 <400> SEQUENCE: 12
257 ttaaaggtgg atttgaggaa ggaaaggatc ttgtgttgtc tgtgatgtct gcaatgggtg 60
258 aagagcagat tgccgctgtt aaggacattg gtaccaagaa ctagtcgcgc attctgcagc 120
259 ataaataatt tgctttagcc aagacatttt atatcttaat cgtggtactt tgatatccgt 180
260 tgattatgaa ctcgacttat atcctattgg catggcttga atagttgaac tttatggttt 240
261 gtctggtaag acagaactgg atttgatagc agaagtgatt tatatgaatg        290
264 <210> SEQ ID NO: 13
265 <211> LENGTH: 260
266 <212> TYPE: DNA
267 <213> ORGANISM: Nicotiana tabacum
269 <220> FEATURE:
270 <223> OTHER INFORMATION: plasmid a18-4-6
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: (36)..(172)
275 <223> OTHER INFORMATION: n can be any nucleotide
277 <400> SEQUENCE: 13
```
W--> **278 tgatgatggc tgggttcact ccatccccaa ttagtngnaa cgtntatgan tngatccaga 60**
```
279 attttatcaa gcnatatagt gnaaggnaca aagccaaggg gggggcaggt gcaatncatt 120
280 ttgggtgggg aganaagagn ntgattgttg cttnagcttg ggaatagtta cnaagtatgg 180
281 ttttctcata taaacccaca atgtgcatcg aatcaacttg tattgacatc tgactttgtg 240
282 ataatattca gtgtttatga                                            260
285 <210> SEQ ID NO: 14
286 <211> LENGTH: 269
287 <212> TYPE: DNA
288 <213> ORGANISM: Nicotiana tabacum
290 <220> FEATURE:
291 <223> OTHER INFORMATION: plasmid a19-3-1
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (222)..(267)
296 <223> OTHER INFORMATION: n can be any nucleotide
298 <400> SEQUENCE: 14
299 cgtgatagtt ttttcgcgac ttgattagaa gcaaatcagc aatagataag ggacttgtat 60
300 aaaagatagg tagcaaaata tactgtcctc ttcgtcctct gccttttttt tctttttaac 120
301 tttgatttta cagccatctc tggtaaaagt tctgatttct ctgggctcag ttttgttaat 180
```
W--> **302 caatataaat caatataaaa acagcttgct tttctatgtt tnggttgatt tagatatgca 240**
```
303 aatncttggt agagctgttt ctctttncc                                  269
306 <210> SEQ ID NO: 15
307 <211> LENGTH: 268
308 <212> TYPE: DNA
309 <213> ORGANISM: Nicotiana tabacum
311 <220> FEATURE:
312 <223> OTHER INFORMATION: plasmid a19-3-3
314 <400> SEQUENCE: 15
315 gagtaaaatt catatttgat aattatacaa ggaaattaca ttcttaaaga agtgattttg 60
316 atttgagttc caagatttgg tgaagttact aaacagattt tgagttccta acttgtcgcg 120
317 aatgctggat aactcagcca ttttaatatt ctagtactcc attaatttat tgtttcttaa 180
318 cctatgtgta tgtttttcct gccgcagcaa ctttagttga tttcagagta ttcgttttga 240
```

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Input Set : **A:\Sequence Listing 8-25-03.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; N Pos. 68
Seq#:2; N Pos. 141,179,187,188
Seq#:4; N Pos. 58,195
Seq#:5; N Pos. 64,186
Seq#:6; N Pos. 19
Seq#:9; N Pos. 9,11,137,217,218,309
Seq#:10; N Pos. 166,264
Seq#:11; N Pos. 27,58,62,91,96,104,105,106,107,111,116,135,212,277
Seq#:13; N Pos. 36,38,44,50,52,73,82,87,116,134,140,141,154,172
Seq#:14; N Pos. 222,244,267
Seq#:16; N Pos. 72,115,139,174,177
Seq#:17; N Pos. 91,93,220
Seq#:19; N Pos. 242
Seq#:25; N Pos. 26,150,171
Seq#:26; N Pos. 62
Seq#:27; N Pos. 73,144
Seq#:28; N Pos. 26,88,104,143,152
Seq#:29; N Pos. 36,128
Seq#:33; N Pos. 9,10,13,17,23,24,29,34,37,39,42,44,47,51,53,54,55,58,59,62
Seq#:33; N Pos. 67,68,70,78,81,86
Seq#:36; N Pos. 2,4,9,11,14,21,25,28,38,41,47,52,56,62,65,84,98,105,111
Seq#:40; N Pos. 242
Seq#:47; N Pos. 49,159
Seq#:50; N Pos. 18,19
Seq#:52; N Pos. 402,431,454,459,461
Seq#:56; N Pos. 33,61
Seq#:60; N Pos. 217,238,252,260,268,284,299,302,306
Seq#:61; N Pos. 35,110,157,237,243
Seq#:62; N Pos. 52,111,244
Seq#:65; N Pos. 134,158,173
Seq#:66; N Pos. 53,72
Seq#:68; N Pos. 70,75,112,266,294
Seq#:69; N Pos. 63,66,100,160,174,177,221,225,228,236,254,256,277,279,285
Seq#:69; N Pos. 289,291,299,304,306,322,324
Seq#:70; N Pos. 102,107,129,141,154
Seq#:71; N Pos. 111,144,151,232,240,323
Seq#:72; N Pos. 25,59,62,81,92,104,119,168,185,220
Seq#:73; N Pos. 25,35,133,199
Seq#:74; N Pos. 70,147,155,210
Seq#:75; N Pos. 11,176
Seq#:90; N Pos. 44,45
Seq#:95; N Pos. 165,166,167,291
Seq#:96; N Pos. 37,139,184,234
Seq#:99; N Pos. 89,186
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Input Set : **A:\Sequence Listing 8-25-03.txt**
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```
Seq#:100; N Pos. 3,7,12,22,24,29,32,36,39,45,61,63,69,76,79,91,102,103,113
Seq#:100; N Pos. 121,122,124,128,142,143,158,160,166,171,181,182,186,188
Seq#:100; N Pos. 189,195,208,217,221,232,236,240,244,254,256,260,265,267
Seq#:100; N Pos. 272,274,281,287,289,296,305,314,324,327,331,333,337,338
Seq#:100; N Pos. 340,344,346,347,358,361,362,367,368,369,373,374,388,400
Seq#:100; N Pos. 409
Seq#:107; N Pos. 219,220
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VERIFICATION SUMMARY
DATE: 09/03/2003

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Input Set : **A:\Sequence Listing 8-25-03.txt**
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```
L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120
M:341 Repeated in SeqNo=2
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
M:341 Repeated in SeqNo=5
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120
M:341 Repeated in SeqNo=10
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:180
M:341 Repeated in SeqNo=14
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60
M:341 Repeated in SeqNo=17
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:240
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60
M:341 Repeated in SeqNo=27
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
M:341 Repeated in SeqNo=33
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
M:341 Repeated in SeqNo=36
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:240
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
M:341 Repeated in SeqNo=47
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:360
M:341 Repeated in SeqNo=52
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
M:341 Repeated in SeqNo=56
L:1166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:180
M:341 Repeated in SeqNo=60
```

VERIFICATION SUMMARY   DATE: 09/03/2003
PATENT APPLICATION: **US/10/647,625**   TIME: 10:55:02

Input Set : **A:\Sequence Listing 8-25-03.txt**
Output Set: **N:\CRF4\09032003\J647625.raw**

L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
M:341 Repeated in SeqNo=61
L:1207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
M:341 Repeated in SeqNo=62